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TITLE: SECRET KEY GENERATING METHOD, CIPHERING METHOD AND CIPHER COMMUNICATION METHOD

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## ABSTRACT:

PROBLEM TO BE SOLVED: To generate a secret key with high safety against an attack based on an algorithm by generating the secret key intrinsic to each entity to be used when a plaintext is ciphered to a cipher text according to an intrinsic law set by every entity.

SOLUTION: A generalization center 1 is connected with each of plural entities a, b, ..., z as users to use this ciphering system by secret key communication routes 2a, 2b, ..., z and key information of the private key from the generalization center 1 is transmitted to each of the entities a, b, ..., z via the private key communication routes 2a, 2b, ..., z. In addition, communication routes 3ab, 3az, 3bz, ... are provided between two entities and the cipher text formed by ciphering communication information via the communication routes 3ab, 3az, 3bz, ... is transmitted between mutual entities. The private key of the entity is calculated by using an individual private random number vector and transmitted to the entity behind the curtain by the generalization center 1.

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